

Title (en)

APPARATUSES AND METHOD FOR GENERATING A UNIFORM MAGNETIC FIELD

Title (de)

VORRICHTUNGEN UND VERFAHREN ZUR ERZEUGUNG EINES GLEICHMÄSSIGEN MAGNETFELDS

Title (fr)

APPAREILS ET PROCÉDÉ DESTINÉS A GÉNÉRER UN CHAMP MAGNÉTIQUE UNIFORME

Publication

**EP 2988101 A1 20160224 (EN)**

Application

**EP 15180445 A 20150810**

Priority

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Abstract (en)

Apparatus and methods for generating a uniform magnetic field are provided herein. In certain configurations, a magnetic structure (400) includes one or more pairs of magnets (410A, 410B) positioned within a housing (325). The magnets of each pair are arranged in parallel and include poles that are reversed in polarity relative to one another. For example, in certain implementations, a first pair of magnets includes a first magnet (410A) and a second magnet (410B) arranged side by side, with a north pole of the first magnet adjacent a south pole of the second magnet and with a south pole of the first magnet adjacent a north pole of the second magnet. The housing is implemented using a magnetic redirecting material, which can confine magnetic flux and reduce stray magnetic fields. The magnetic structure can be used to generate a magnetic field that is substantially uniform in a region of interest.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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